

5'	9	G	GCC	CCA	GAG	AGC	AGG	CGC	TGG	GCA	GTG	TGG	AGG	TCG	TTG	GAG	TCA	CTT	CCG	54
	63	CAG	CTC	CTG	TGC	CTG	CCA	GTC	GGT	GCC	CCT	CCC	GCT	CCA	GCC	ATG	CTC		108	
	117	GCC	CTC	GCC	CGG	CCT	GCC	AGC	GCT	CTC	CGC	CGC	AGC	TTC	AGC	ACC	TCG		162	
		S	A	L	A	R	P	A	S	A	A	L	R	R	S	F	S	T	S	
	171	GCC	CAG	AAC	AAT	GCT	AAA	GTA	GCT	GTG	CTA	GGG	GCC	TCT	GGA	GGC	ATC	GGG	CAG	
		A	Q	N	N	A	K	V	A	V	L	G	A	S	G	G	I	G	Q	
	225	TCA	CTT	CTC	CTG	AAG	AAC	AGC	CCC	TTG	GTG	AGC	CGC	CTG	ACC	CTC	TAT		270	
		P	L	S	L	L	L	K	N	S	P	L	V	S	R	L	T	L	Y	
	279	GAT	ATC	GCG	CAC	ACA	CCC	GGA	GTG	GCC	GCA	GAT	CTG	AGC	CAC	ATC	GAG	ACC	AAA	
		D	I	A	H	T	P	G	V	A	A	D	L	S	H	I	E	T	K	
	333	GCT	GTG	AAA	GGC	TAC	CTC	GGA	CCT	GAA	CAG	CTG	CCT	GAC	TGC	CTG	AAA	GGT		
		A	A	V	K	G	Y	L	G	P	E	Q	L	P	D	C	L	K	G	

FIGURE 1A

387	TGT GAT GTG GTA GTT ATT CCG GCT GGA GTC CCC AGA AAG CCA GGC ATG ACC CGG	405	414	423	432
	C D V V V I P A G V P R K P G M T R				
441	GAC GAC CTG TTC AAC ACC AAT GCC ACG ATT GTG GCC ACC CTG ACC GCT GCC TGT	459	468	477	486
	D D L F N T N A T I V A T L T A A C				
495	GCC CAG CAC TGC CCG GAA GCC ATG ATC TGC GTC ATT GCC AAT CCG GTT AAT TCC	513	522	531	540
	A Q H C P E A M I C V I A N P V N S				
549	ACC ATC CCC ATC ACA GCA GAA GTT TTC AAG AAG CAT GGA GTG TAC AAC CCC AAC	567	576	585	594
	T I P I T A E V F K K H G V Y N P N				
603	AAA ATC TTC GGC GTG ACG ACC CTG GAC ATC GTC AGA GCC AAC ACC TTT GTT GCA	621	630	639	648
	K I F G V T T L D I V R A N T F V A				
657	GAG CTG AAG GGT TTG GAT CCA GCT CGA GTC AAC GTC CCT GTC ATT GGT GGC CAT	675	684	693	702
	E L K G G L D P A R V N V P V I G G H				
711	GCT GGG AAG ACC ATC ATC CCC CTG ATC TCT CAG TGC ACC CCC AAG GTG GAC TTT	729	738	747	756
	A G K T I I P L I S Q C T P K V D F				

FIGURE 1B

765	774	783	792	801	810
CCC CAG GAC CAG CTG ACA GCA CTC ACT GGG CGG ATC CAG GAG GCC GGC ACG GAG					
P Q D Q L T A L T G R I Q E A G T E					
819	828	837	846	855	864
GTG GTC AAG GCT AAA GCC GGA GCA GGC TCT GCC ACC CTC TCC ATG GCG TAT GCC					
V V K A K A G A G S A T L S M A Y A					
873	882	891	900	909	918
GGC GCC CGC TTT GTC TTC TCC CTT GTG GAT GCA ATG AAT GGA AAG GAA GGT GTT					
G A R F V F S L V D A M N G K E G V					
927	936	945	954	963	972
GTG GAA TGT TCC TTC GTT AAG TCA CAG GAA ACG GAA TGT ACC TAC TTC TCC ACA					
V E C S F V K S Q E T E C T Y F S T					
981	990	999	1008	1017	1026
CCG CTG CTG CTT GGG AAA AAG GGC ATC GAG AAG AAC CTG GGC ATC GGC AAA GTC					
P L L L G K K G I E K N L G I G K V					
1035	1044	1053	1062	1071	1080
TCC TCT TTT GAG GAG AAG ATG ATC TCG GAT GCC ATC CCC GAG CTG AAG GCC TCC					
S S F E E K M I S D A I P E L K A S					
1089	1098	1107	1116	1125	1134
ATC AAG AAG GGG GAA GAT TTC GTG AAG ACC CTG AAG TGA GCC GCT GTG ACG GGT					
I K K G E D F V K T L K					

FIGURE 1C

1143	1152	1161	1170	1179	1188
GGC CAG TTT CCT TAA TTT ATG AAG GCA TCA TGT CAC TGC AAA GCC GTT GCA GAT					
1197	1206	1215	1224	1233	1242
AAA CTT TGT ATT TTA ATT TGC TTT GGT GAT GAT TAC TGT ATT GAC ATC ATG					
1251	1260	1269	1278	1287	1296
CCT TCC AAA TTG TGG GTG GCT CTG TGG GCG CAT CAA TAA AAG CCG TCC TTG ATT					
1305	1314	1323	1332		
TTA TTT TTC AAG GTC CCT TCT GTA AAT GCA AAA AAA A 3'					

FIGURE 1D

1	M L S A L A R P A S A A L R R S F S T S	11587
1	M L S A L A R P V G A A L R R S F S T S	GI 56643
1	- - - - -	GI 164541
21	A Q N N A K V A V L G A S G G I G Q P L	11587
21	A Q N N A K V A V L G A S G G I G Q P L	GI 56643
1	- - - - -	GI 164541
41	S L L L K N S P L V S R L T L Y D I A H	11587
41	S L L L K N S P L V S R L T L Y D I A H	GI 56643
1	S L L L K N S P L V S R L T L Y D I A H	GI 164541
61	T P G V A A D L S H I E T K A A V K G Y	11587
61	T P G V A A D L S H I E T R A N V K G Y	GI 56643
21	T P G V A A D L S H I E T R A T V K G Y	GI 164541
81	L G P E Q L P D C L K G C D V V V I P A	11587
81	L G P E Q L P D C L K G C D V V V I P A	GI 56643
41	L G P E Q L P D C L K G C D V V V I P A	GI 164541
101	G V P R K P G M T R D D L F N T N A T I	11587
101	G V P R K P G M T R D D L F N T N A T I	GI 56643
61	G V P R K P G M T R D D L F N T N A T M	GI 164541
121	V A T L T A A C A Q H C P E A M I C V I	11587
121	V A T L T A A C A Q H C P E A M I C I I	GI 56643
81	V A T L T V A C A Q H C P D A M I C I I	GI 164541
141	A N P V N S T I P I T A E V F K K H G V	11587
141	S N P V N S T I P I T A E V F K K H G V	GI 56643
101	S N P V N S T I P M T A E V F K K H G V	GI 164541
161	Y N P N K I F G V T T L D I V R A N T F	11587
161	Y N P N K I F G V T T L D I V R A N T F	GI 56643
121	Y N P N K I F G V T T L D I V R A N A F	GI 164541

FIGURE 2A

181 V A E L K G L D P A R V N V P V I G G H 11587
 181 V A E L K G L D P A R V N V P V I G G H GI 56643
 141 V A E L K G L D P A R V S V P V I G G H GI 164541

201 A G K T I I P L I S Q C T P K V D F P Q 11587
 201 A G K T I I P L I S Q C T P K V D F P Q GI 56643
 161 A G K T I I P L I S Q C T P K V D F P Q GI 164541

221 D Q L T A L T G R I Q E A G T E V V K A 11587
 221 D Q L A T L T G K I Q E A G T E V V K A GI 56643
 181 D Q L S T L T G R I Q E A G T E V V K A GI 164541

241 K A G A G S A T L S M A Y A G A R F V F 11587
 241 K A G A G S A T L S M A Y A G A R F V F GI 56643
 201 K A G A G S A T L S M A Y A G A R F V F GI 164541

261 S L V D A M N G K E G V V E C S F V K S 11587
 261 S L V D A M N G K E G V I E C S F V Q S GI 56643
 221 S L V D A M N G K E G V V E C S F V K S GI 164541

281 Q E T E C T Y F S T P L L L G K K G I E 11587
 281 K E T E C T Y F S T P L L L G K K G L E GI 56643
 241 Q E T D C P Y F S T P L L L G K K G I E GI 164541

301 K N L G I G K V S S F E E K M I S D A I 11587
 301 K N L G I G K I T P F E E K M I A E A I GI 56643
 261 K N L R I G K I S P F E E K M I A E A I GI 164541

321 P E L K A S I K K G E D F V K T L K 11587
 321 P E L K A S I K K G E D F V K N M K GI 56643
 281 P E L K A S I K K G E E F V K N T K GI 164541

FIGURE 2B

FIGURE 3A

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105220-463360

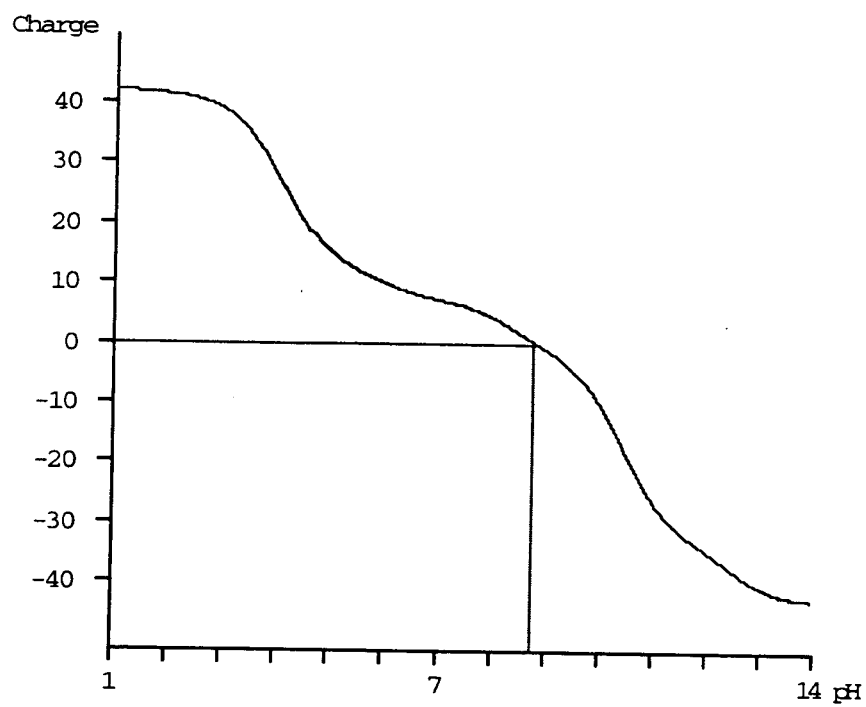


FIGURE 3B

1 M L S A L A R P A S A A L R R S F S T S 11587
 21 A Q N N A K V A V L G A S G G I G Q P L 11587
 41 S L L L K N S P L V S R L T L Y D I A H 11587
 61 T P G V A A D L S H I E T K A A V K G Y 11587
 81 L G P E Q L P D C L K G C D V V V I P A 11587
 101 G V P R K P G M T R D D L F N T N A T I 11587
 121 V A T L T A A C A Q H C P E A M I C V I 11587
 141 A N P V N S T I P I T A E V F K K H G V 11587
 161 Y N P N K I F G V T T L D I V R A N T F 11587
 181 V A E L K G L D P A R V N V P V I G G H 11587
 201 A G K T I I P L I S Q C T P K V D F P Q 11587
 221 D Q L T A L T G R I Q E A G T E V V K A 11587
 241 K A G A G S A T L S M A Y A G A R F V F 11587
 - - G X G X X G X X X X X X X X X X G NAD(H) mot.
 - - G X G X X A X X X A X X X X X X G NADP(H) mot.
 261 S L V D A M N G K E G V V E C S F V K S 11587

FIGURE 4A

281 Q E T E C T Y F S T P L L L G K K G I E 11587

301 K N L G I G K V S S F E E K M I S D A I 11587

321 P E L K A S I K K G E D F V K T L K 11587

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FIGURE 4B